

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below-named inventor, Peter C. VanBuskirk, Jeffrey F. Roeder, Steven M. Bilodeau, Michael W. Russell, Stephen T. Johnston, Daniel J. Vestyck, and Thomas H. Baum, we hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "**Scalable Lead Zirconium Titanate (PZT) Thin Film Material and Deposition Method, and Ferroelectric Memory Device Structures Comprising Such Thin Film Material**", the specification of which

- (check one) is attached hereto.
 was filed on _____ as Application Serial No. _____
 and was amended _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed
 Yes No

(Number)	(Country)	(Day/Month/Year Filed)
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this specification is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number)	(Filing Date)	(Status-Patented, Pending, abandoned)
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

OLIVER A. ZITZMANN, Reg. No. 38,691

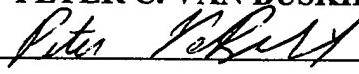
STEVEN J. HULQUIST, Reg. No. 28,021

All correspondence in connection with this application should be sent to:

**Oliver A. Zitzmann
ATMI, Inc.
7 Commerce Drive
Danbury, CT 06810
Telephone: (203) 794-1100**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of first inventor: **PETER C. VAN BUSKIRK**

Inventor's Signature  Date 2/17/99

Residence: 18 Poverty Hollow Road, Newtown, CT 06470

Citizenship: USA

Post Office Address: 18 Poverty Hollow Road, Newtown, CT 06470

Full Name of second inventor: **JEFFREY F. ROEDER**

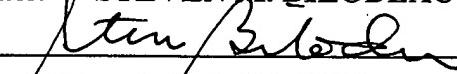
Inventor's Signature  Date 2/15/99

Residence: 4 Longmeadow Hill Road, Brookfield, CT 06804

Citizenship: USA

Post Office Address: 4 Longmeadow Hill Road, Brookfield, CT 06804

Full Name of third inventor: **STEVEN M. BILODEAU**

Inventor's Signature  Date 2/17/99

Residence: 20 Carriage Drive, Oxford, CT 06478

Citizenship: USA

Post Office Address: 20 Carriage Drive, Oxford, CT 06478

Full Name of fourth inventor: **MICHAEL W. RUSSELL**

Inventor's Signature  Date 2/15/99

Residence: 50 Aiken Street, Apt. 516, Norwalk, CT 06851

Citizenship: USA

Post Office Address: 50 Aiken Street, Apt. 516, Norwalk, CT 06851

Full Name of fifth inventor: **STEPHEN T. JOHNSTON**

Inventor's Signature Stephen Johnston

Date 15 FEB 99

Residence: 34 Greenwood Avenue, Bethel, CT 06801

Citizenship: USA

Post Office Address: 34 Greenwood Avenue, Bethel, CT 06801

Full Name of sixth inventor: **DANIEL J. VESTYCK**

Inventor's Signature Daniel J. Vestyck Jr.

Date 02/16/99

Residence: 26-10 Rose Lane, Danbury, CT 06811

Citizenship: USA

Post Office Address: 26-10 Rose Lane, Danbury, CT 06811

Full Name of seventh inventor: **THOMAS H. BAUM**

Inventor's Signature Thomas H. Baum

Date 2-16-99

Residence: 2 Handol Lane, New Fairfield, CT 06812

Citizenship: USA

Post Office Address: 2 Handol Lane, New Fairfield, CT 06812

ASSIGNMENT

We have made an invention described in the U.S. Patent Application entitled "**Scalable Lead Zirconium Titanate (PZT) Thin Film Material and Deposition Method, and Ferroelectric Memory Device Structures Comprising Such Thin Film Material**" which has been executed by us on the same date as this Assignment for filed in the United States Patent and Trademark Office.

We assign to Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut 06810, all of our ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (ii) U.S. Patents on the invention; and
- (iii) corresponding foreign patent applications and patents.

We are making this assignment based on our relationship with Advanced Technology Materials, Inc.

We request the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue patents on the invention to Advanced Technology Materials, Inc.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

We agree that we will promptly communicate to Advanced Technology Materials, Inc. all facts which come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

We state that we have not previously taken any action in conflict with this Assignment.



Peter C. VanBuskirk

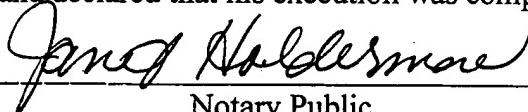
2/17/99

Date

State: Connecticut

County: Fairfield

Peter C. VanBuskirk appeared before me on February 17, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.



Notary Public

(SEAL)

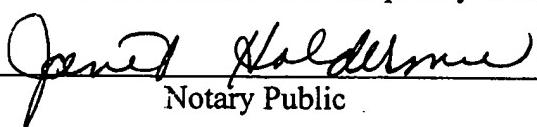
My commission expires on:

4-30-02

State: Connecticut

County: Fairfield

Jeffrey F. Roeder appeared before me on February 15, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.



Notary Public

2/15/99

Date

(SEAL)

My commission expires on:

4-30-02

Steven Bilodeau

Steven M. Bilodeau

2-17-99

Date

State: Connecticut

County: Fairfield

Steven M. Bilodeau appeared before me on February 17, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Jane Holleman

Notary Public

(SEAL)

My commission expires on:

4-30-02

Michael Russell

Michael W. Russell

2/15/99

Date

State: Connecticut

County: Fairfield

Michael W. Russell appeared before me on February 15, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Jane Holleman

Notary Public

(SEAL)

My commission expires on:

4-30-02

Hilt

Stephen T. Johnston

15 FEB 99

Date

State: Connecticut

County: Fairfield

Stephen T. Johnston appeared before me on February 15, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Jane Haldeman

Notary Public

(SEAL)

My commission expires on:

4-30-02

Daniel J. Vestyck Jr.

Daniel J. Vestyck

02/16/99

Date

State: Connecticut

County: Fairfield

Daniel J. Vestyck appeared before me on February 16, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Jane Haldeman

Notary Public

(SEAL)

My commission expires on:

4-30-02

Thomas H. Baum

Date

Date

State: Connecticut

County: Fairfield

Thomas H. Baum appeared before me on February 16, 1999. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Janet Nolden
Notary Public

Notary Public

(SEAL)

My commission expires on:

4-30-02